Missouri Botanical Garden
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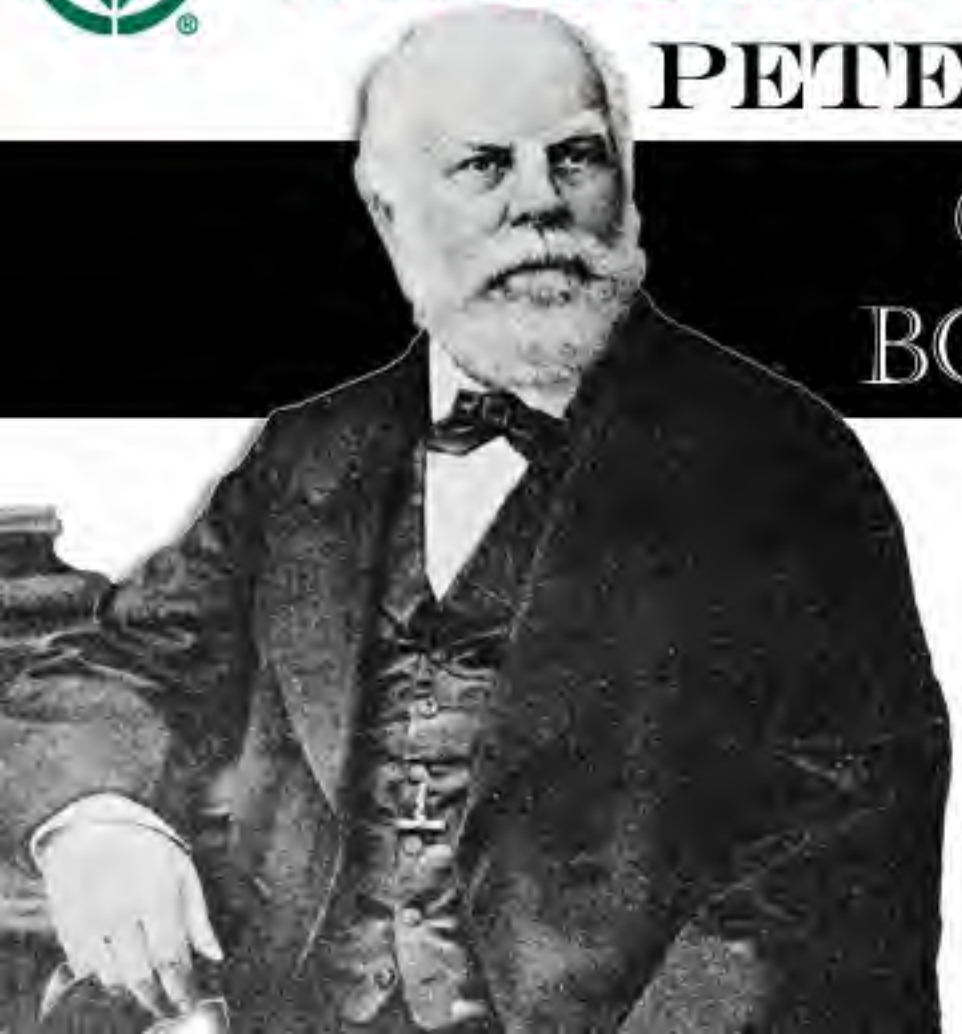
George Engelmann Botanical Notebooks



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Abies Douglasii near Lindstrom's Mill, Empire City, 1862
Circumference at base 2' 11" no of rings 113 height 42 feet
" a small tree " thickness of bark 1 inch.
2' 11" = 35" - bark = 33" rads 5 1/4 width of ring 0,3
or over 1/2 line

" Hemlock " of Colorado (Dr Parry)

Mexico, Boyl. Hartweg & others
Real del Monte Shrub = Hb Berlin & mus

10651A

Abies Douglasii, Laguayra, Ed. Otto. Coll. Shrb Berl. 749 ?!

Berlin June 1869
a mistake in locality ?

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10651 B

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A. Douglasii Nutt Sylv 3. 129

One of the largest trees known 300 feet high.
6–15 feet in diameter – ordinarily 150–200 feet
Old bark rugged, deeply furrowed 9–15 inches
thick. Lumber heavy and firm
yellow

E Hall – in Bot Gazette April 1877:
the most valuable forest tree of Oregon
6–8 feet in diam. 200 & 300 (mostly) feet high.
Bark thick and rough.

E Hall – Letter Dec 30 1877 Douglasii is
called yellow fir in Oregon. A grandis
I saw none so large as the notes in Centen: Coll
& sections
make it

10652

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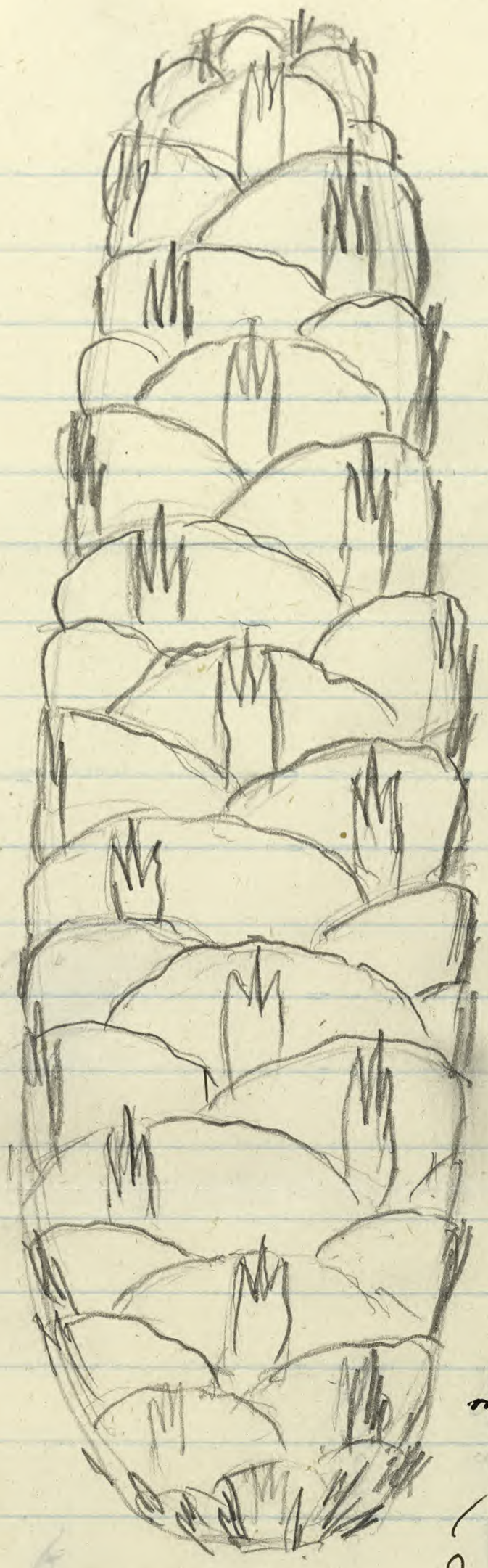
July 23? 1875



Abies Douglasii var macro-
Carpa
Oregon Pass King
cone 6 3/4 inches long nearly 2
inches in largest diameter, nearly
cylindrical, slightly tapering

Scales 1/2 inches wide or more
broader as long as scales, abt 1/2 or
even 1 3/4 inches long.—

Scales in 8/13 arrangement, the
3 & 5 series the most
prominent

Seeds smooth, without glands

5-l. long 4 l. wide
wing widest in middle
(5 l.), 5-6 l. long
scarcely longer than seed.
seed brown and shiny on outer
or upper side
very convex, on inner or lower side
(where attached to scale) whitish,
dull and flat

Embryo (only one examined) with 12 Cotyledons
Leaves 9-12 lines long, acutish, rather thick.
Stomata only on lower side margin some-
what revolute or thickened.
Branchlets slightly pubescent
buds ovate-lanceolate, brown, shining,
compact.

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10653

macrocarpa

Abies Douglasii

var macrocarpa Torr

= Bot Lacs Exp

p. 28

Discovered by Dr Parry - 1851

but not obtained in bloom

Rediscovered by J. S. Newberry - Lacs Exp

Nov 16 1857.

Lemmon says: cones up to 11 inches long

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Mex. Douglasii monocarpa Jan 7 1876

San Bernardino, Riv, 1874

Young ans

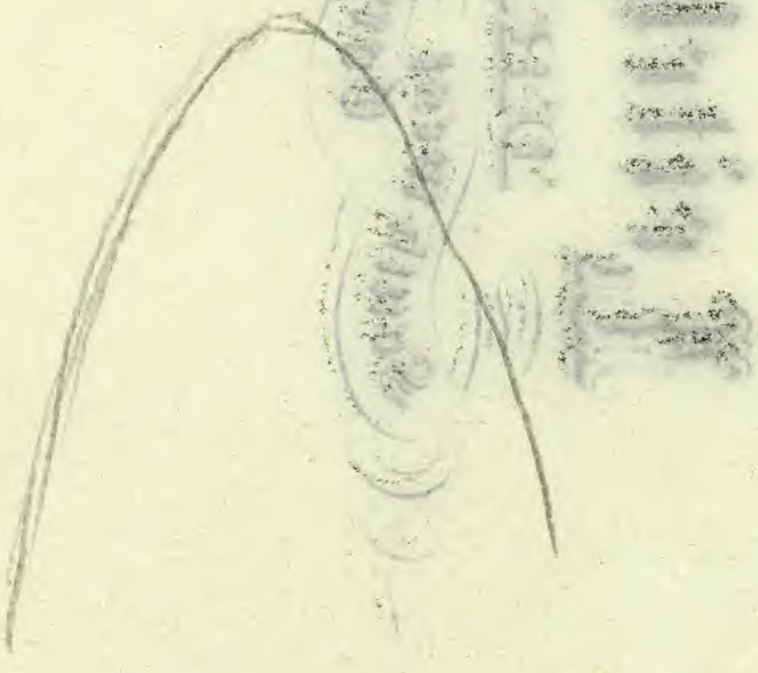
x 30

hypodermalls underneath surface

Costineous

5-7 series of stomata

x 285



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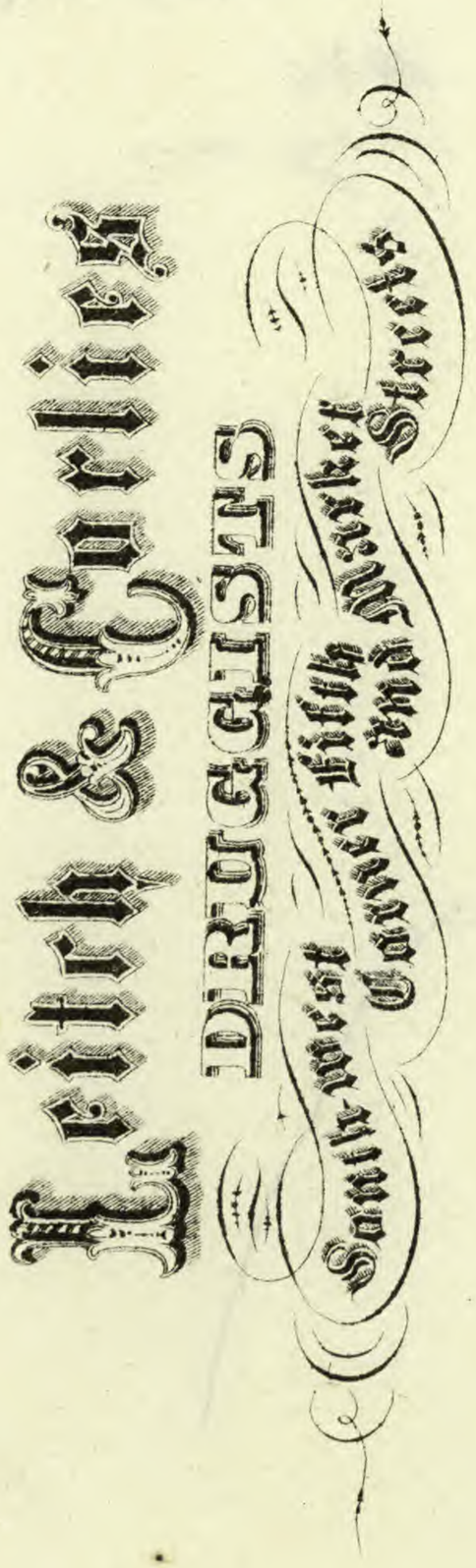

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Jan 1 1878

"Douglasii": I have never seen this species with very wide inner rings — even in the early growth the rings are not more than 1½ lines, often only ½ line wide or 15 lines to 10 rings at most 5 lines at least.

Bark in large trees 3 to 5 to even 7 inches in thickness — always strongly mottled.

spec. in Centenn Exhibition

Abies amabilis of California and Oregon botanists may be often nothing but Douglasii which is called yellow fir

brings us to what I have always considered as the true
A. amabilis of Douglas, since I had seen those
specimens in the English Gardens, mentioned above —
the only ones, which, I repeat it, can have come
from Douglas' seeds. One is identical with our
grandis from Oregon, the other seems to differ, and certainly
deserves the name of *amabilis* on account of its dark
glossy green and very dense foliage conspicuously
white below. Prof M Rab has come to the same
conclusion, but he differs from me in considering
it a distinct species, while I can see in it only
a form — perhaps a mountain form — of *grandis*
itself. Douglas ascribes to it a large cone which he sent
home, and which was preserved in the collection of the ~~Hort.~~
Hort. Society, but which can not be traced now. I
have seen Oregon specimens with the same dense foliage
but with the ordinary cones of *grandis*. I venture,
therefore, to introduce it as

Var: ~~amabilis~~ *densifolia*

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106655

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a. The specimen

of which you wrote as 384 with the brown bark and very narrow

Dr Vasey rings is Mr Dufur's No 12, and called by him A. Douglasii !!

I will quote his remarks concerning it — "Is the timber that composes the great lumbering wealth of Oregon and W.T. Not unfrequently attains the size of 8-10-12 and sometimes 15 feet in diameter and from 250 to 350 ft in height.

Is found in its greatest perfection along the tributaries of the Columbia River, also in the valleys of rivers emptying into the Pacific Ocean & Puget Sound. The wood is soft, free and easily worked, of a yellowish color, much prized for masts, spars, plank &c for shipbuilding; is also equally valuable for all kinds of ~~X~~ building material excepting sash, moulding and scroll work.. Is of rapid growth, the young trees frequently attaining 70 ft in ten or twelve years. Is very strong & durable. This timber grows very fine along the base of the coast range and western slope of the Cascade mountains as far up as 3000 ft altitude. I am of the opinion that it is the real grandis of Oregon & W.T."

He mentions a tree cut by him which was 321 ft high and Counted 308 annual rings — Now all this reads like A. Douglasii but his wood specimen was what you speak of — No 384. I could only make of this A. amabilis and so called it. I have already states that Mr D. sent me the real Douglasii, as No 9 but called it A. amabilis. I ~~A~~ t. [illegible]

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his specimens — o

No 9 — they are I think packed away and not just now accessible. It, (No 12) must I think be either amabilis or nobilis. Mr D. sent me nothing as nobilis and I have no wood of that with

Rec Jan 14 '79
Ans same Dy

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1065901
A95901

Washington D.C.
January 11th 1878

Dr. Geo. Engelmann

Dear Sir,

On account of the extremely cold weather I could not spend time enough in the outbuilding where the wood sections are kept, to examine properly the Oregon specimens. I have now however been able to look them over. I have informed you before that the Oregon specimens were very unsatisfactory and especially so because the leaf specimens did not always and to the wood

Clearly A. Douglasii", but he called it A. amabilis, and I quoted his account of it under A. amabilis which was an error. His No 3 he called Abies Williamsonii which I was not satisfied with, as the wood seemed to be nearly the same

1065901

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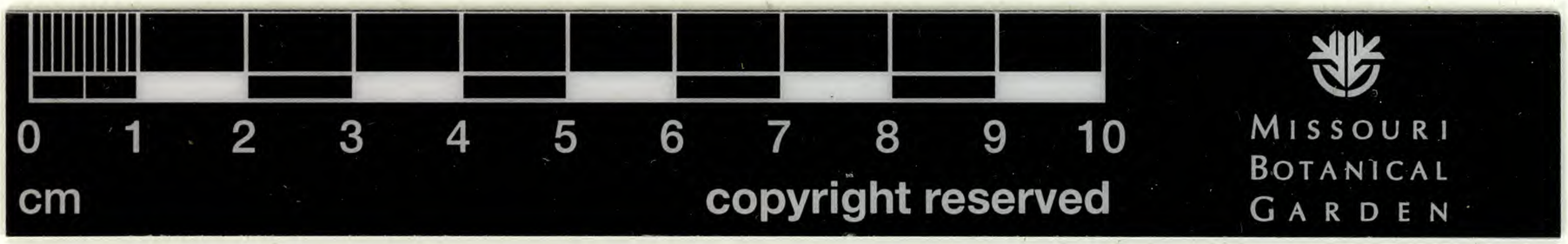
Abies Douglasii sub Abroyl (N Mex ? Ariz ?) smaller than the giants of British Columbia, where the species reaches 200-300 feet in height. " Dr Hooker should make a call. of Barks of all the species " 6 foot slabs " A. Murray. Gard. Chron Jan 29 1876



10657

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Gardeners monthly & horticulturist. Jan 1876 p. 21

Abies macrocarpa, a new coniferous tree by D^r Geo Vasey

In the fall of 1874 Mr F. M Ring of San Gorgonio Pass sent

Cones & Twigs — Nov 25^th 74 he sent further information

Sept 14 1875 — he wrote again (Copy of note sent to me by

Vasey) — D^r Palmer also found it 1875 in San Felipe

Canon. and sent specimens. No Cones in 1875.

D^r Vasey contians: Cones 5 inches long 2½ in diam

[B. with spreading scales] composed of about 60 scales; largest scales

1½ – 1⅞ inches wide. Bracts not projecting as

far as in Douglasii — branches longer and slimmer,

leaves rather more acutely pointed — Seed triangular —

— twice as long to 7/8 – 1 inch long — Cones 5 times as heavy as in

Douglasii (!!)

Brewer had also collected it about 1862

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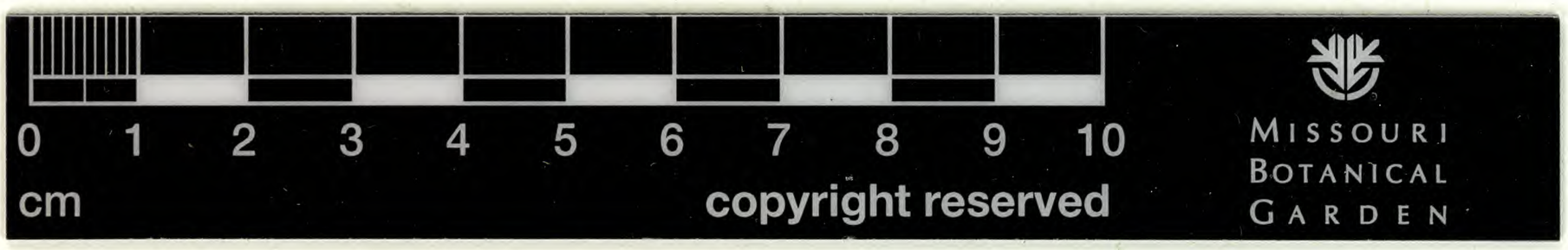

5 *Abies Douglasii*. More or less abundantly
met with through the entire Mountain district
except on the highest elevations, a very upright
tree with a graceful oval outline, spreading
branches, curving upward at the extremities.
Wood very indifferent quality, inclined to warp
and crack in seasoning, turning reddish brown
in drying; bark very rough, thick and dark
colored, slow growth —— average height 80 ft
Comm. at Fountain Point. 1862 & Carey Dec 1861

10659

My Dear Dr

In your last you requested some notes which I have not yet furnished 1st Pines. I have observations and collections of the following,

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1 Pinus aristata. Engl. Exclusively alpine. never found at a lower Elevation than 9000. to 10000 ft?

2 P. flexilis. James. Rather scattering distributed. never forming an exclusive forest

Abies Douglasii, British Columbia (from Gard. Chron. June 28 1862 p. 595

34 inches radius, 354 years old — [about 10 years to the inch] 309 full rings

inner two inches about 2 rings

2½ — — — 9

3½ 12 4' 19 5' 17 6' 23 7' 6 16 8' 17

9" 9' 14 10' 18 11' 24 12' 21 13' 24

14' 14' 24 15' 31 16' 36 17' 42 = 34 inches, 354 rings

Brewer's notes

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10660

Dear Sir

Will you please send me your 1st Article or Monograph of the Oaks or any others on Botanical subjects I should be exceedingly obliged D you for them and if I can do any thing for you in return will be most happy to

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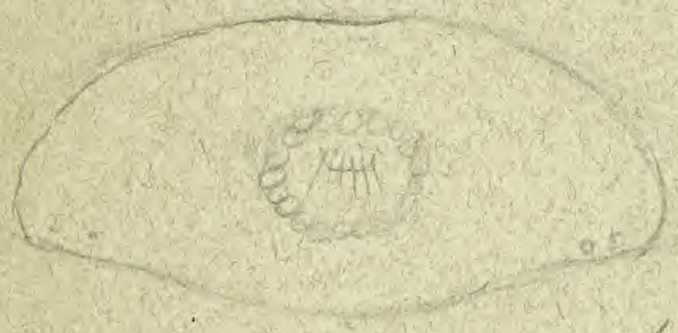
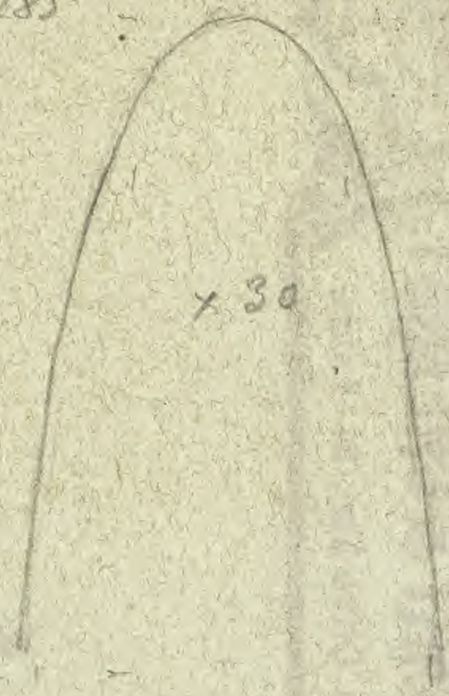
Pseudotsuga macrocarpa

San Bernardino Dr Parry June 1875

Dec 30 1875



4-5 series of stomata



leaves pointed or obtuse

Leaves $\frac{33-39}{30}$

= 1.1 – 1.3 mm wide

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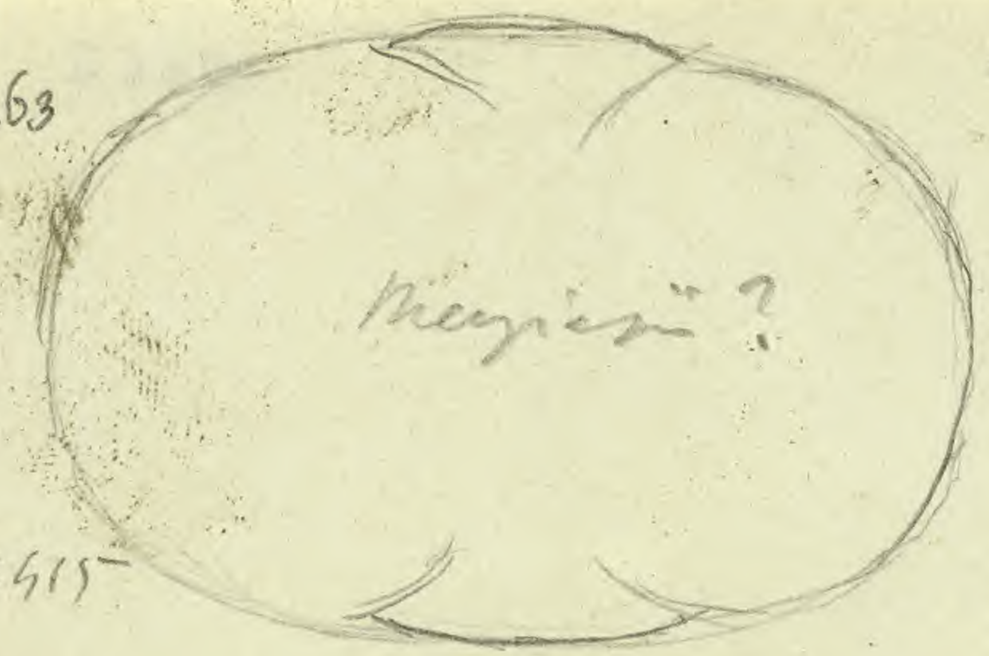
Tenga Dongshan
Tarry 1862

Sept 8
1865

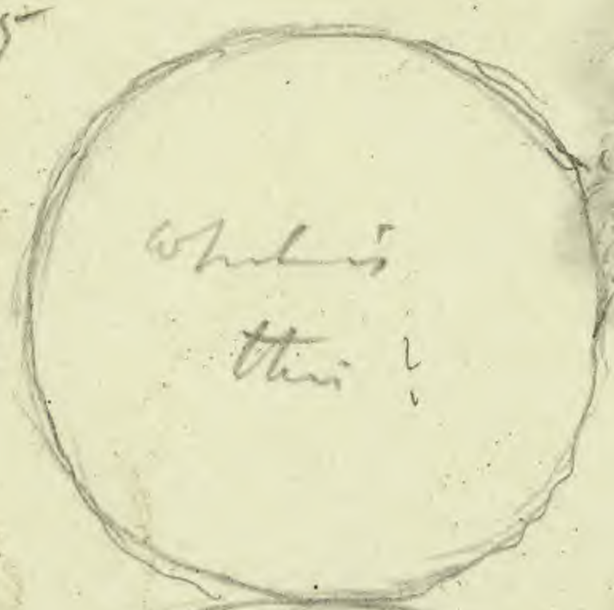
0,063



Diatoms?

x415

x415

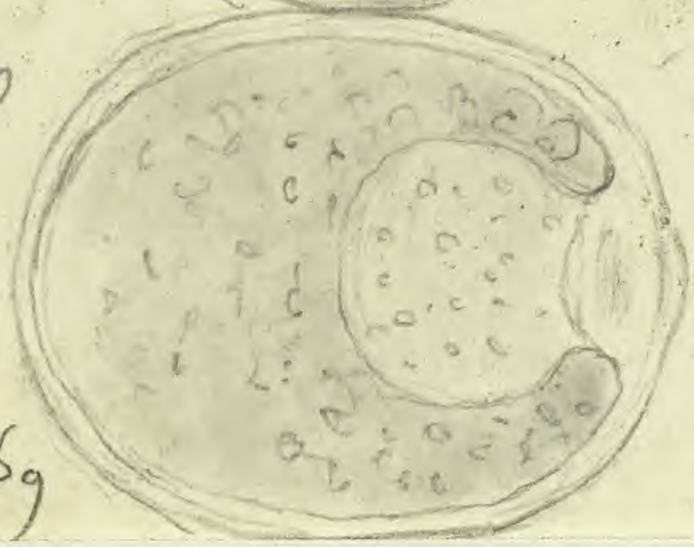


0,059

x

x280

x280



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x 280

HOTEL KELICH
CHEMNITZ

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